Front-End Devolpment with React.js

Project Documentation

1.Introduction:

PROJECT TITLE:RHYTHMIC TUNES

TEAM ID:NM2025TMID43258

TEAM SIZE: 4

TEAM LEADER: BAVANA D

ROLE: CODING AND DEVELOPMENT

TEAM MEMBER : ANU S

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2.Project Overview:

Objective

To design and develop a user-friendly music player web application.

To provide features like search, favorites, and playlist management.

To implement a visually appealing UL with gradient backgrounds and navigation menus .

To create a responsive and accessible platform that can be extended with authentication, streaming, and cloud storage.

System Requirements

Hardware Requirements

Processor: Dual core or higher

RAM: Minimum 4 GB

Storage: Minimum 500 MB free   space

Display:1280×720 resolution or higher

Software Requirements

Fronted:HTML,CSS, Javascript,React/Vue.js(used as per development)

Backend(optional):Node.js/Express.js

Database(optional):MongoDB/firebase(for playlists & user data)

3.Features

Home dashboard:Displays quick navigation to library, favourites and playlists.

Search functionality:Search songs by singer,genre,or song name.

Favourites: Mark and access frequently played songs.

Playlists Management:Create and Manage custom playlists.

4.System Design:

Architecture

Frontend: Handles UI components, navigation,and user interaction .

Backend: Manages song metadata ,user profiles,and playlists.

Database(optional):Stores song, favourites, and playlists,

User

User Interference

Sidebar navigation:Home, Library, Favourites,Playlists.

Central dislay for songs list.

Top search bar with filter support.

5.Conclusion:

The project "Rhythmic Tunes -A Melodic Companion "successfully delivers a simple interactive,and efficient web-design and essential features like favorites and play list,it serves as a foundation for future development into a fully-fledged music streaming application.